

MURRAY-A

Lease Name

104
Well No.1
Test No.2522'-2527'
Tested IntervalCITIES SERVICE OIL COMPANY
Lease Owner/Company NameLegal Location
Sec. - Twp. - Rng.

30-25S-5E

Field Area

ELDORADO

County

BUTLER

State

KANSAS

FLUID SAMPLE DATA				Date 6-12-72		Ticket Number 500253-A	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ ° API @ _____ °F. Gas/Oil Ratio _____ cu. ft./bbl.				Kind of Job OPEN HOLE		Halliburton District ELDORADO	
				Tester MR. MACY		Witness MR. MILLER	
Drilling Contractor WHITE AND ELLIS DRILLING INC. DR				EQUIPMENT & HOLE DATA			
				Formation Tested Viola			
				Elevation 1409' KB Ft.			
				Net Productive Interval 5' Ft.			
				All Depths Measured From Kelly Bushing			
				Total Depth 2527' Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 146' I.D. 2.25"			
				Drill Pipe Length 2364' I.D. 3.826"			
				Packer Depth(s) 2522' Ft.			
				Depth Tester Valve 2509' Ft.			
				TYPE AMOUNT Depth Back Surface Bottom Cushion Ft. Pres. Valve Choke 1/4" Choke 3/4"			
Recovered 176 Feet of mud				Meas. From Tester Valve			
Recovered Feet of PLUGGED ANCHOR PERFORATIONS-MISRUN							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks Opened tool for 30 minute first flow with a good blow building to a strong blow in 5 minutes. Closed tool for 30 minute first closed in pressure. Reopened tool for 60 minute second flow with a strong blow, blow decreasing, dead. Closed tool for 30 minute second closed in pressure.							
TEMPERATURE		Gauge No. 566	Gauge No. 239	Gauge No.	TIME		
Depth:		2510 Ft.	2523 Ft.	Depth:	Hour Clock		
Est. 90 °F.		12 Hour Clock	12 Hour Clock	Blanked Off No		Blanked Off Yes	
Actual °F.		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic			1296		1303		
First Period	Flow Initial		95				
	Flow Final		98				
	Closed in		1167				
Second Period	Flow Initial		98	PLUGGED			
	Flow Final		100				
	Closed in		1009				
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic			1265		1274		

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FORMATION TEST DATA

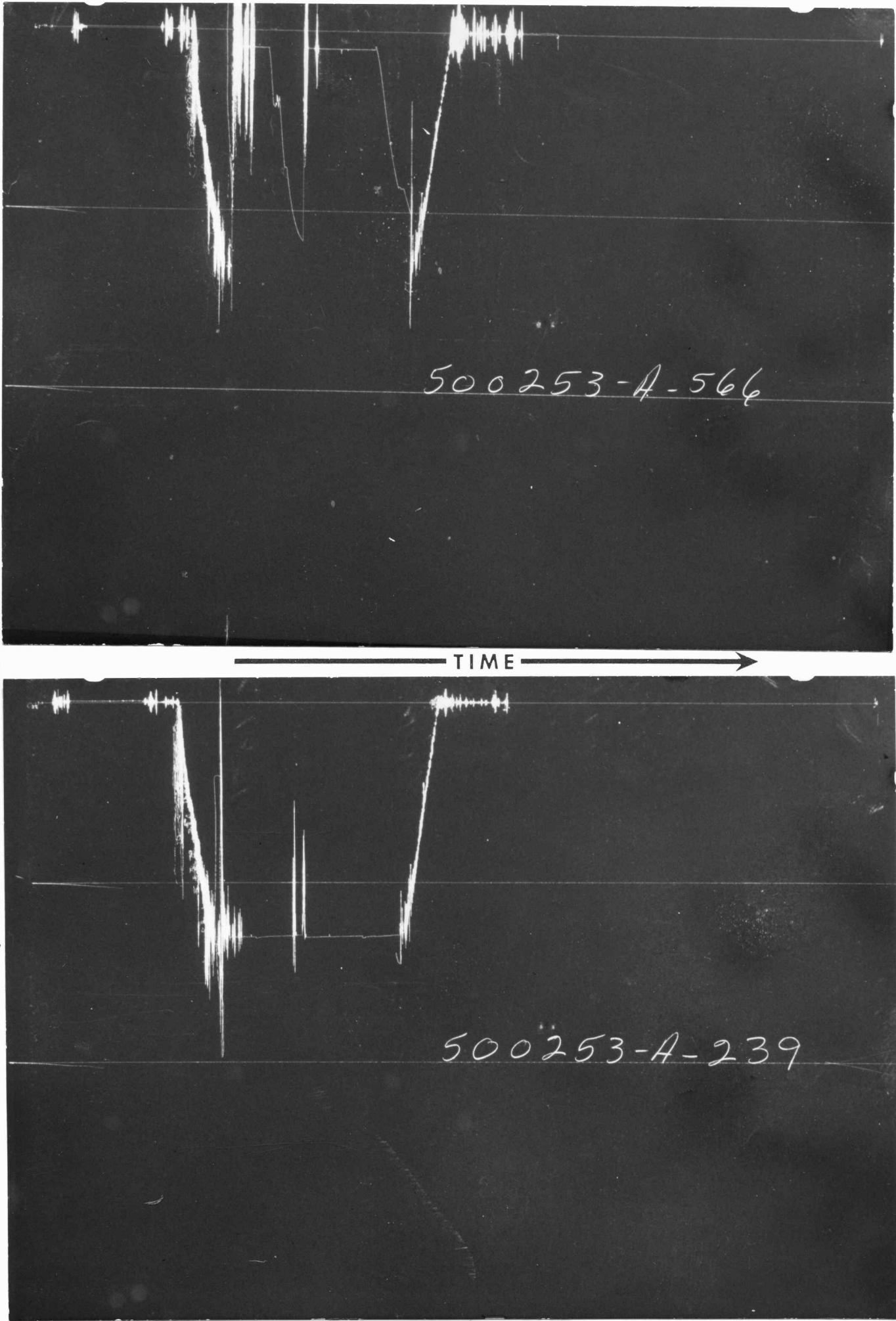
LITTLE'S

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Casing perfs. _____ Bottom choke 3/4" Surf. temp. 90 °F Ticket No. 500253
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

[illegible]

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5"		1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2364'	
Drill Collars	6"	2.25"	146'	
Handling Sub & Choke Assembly	5"	.87"	5'	
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	5'	2509'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	2510'
Hydraulic Jar	5"	1.00"	5'	
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.00"	4'	2522'
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.75"	4'	2523'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



500253-A-566

500253-A-239

Each Horizontal Line Equal to 1000 p.s.i.

MURRAY - A

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2523' - 2530'

CITIES SERVICE OIL COMPANY

Lease Name

Well No.

Test No.

Tested Interval

Legal Location
Sec. - Twp. - Rng.

30 - 25S - 5E

Field
Area

ELDORADO

County

BUTLER

State

KANSAS

Lease Owner/Company Name

FLUID SAMPLE DATA				Date 6-13-72		Ticket Number 500253-B	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District ELDORADO	
Recovery: Cu. Ft. Gas _____				Tester MACY		Witness MILLER	
cc. Oil _____				Drilling Contractor WHITE AND ELLIS DRILLING, INC. NM			
cc. Water _____				EQUIPMENT & HOLE DATA S			
cc. Mud _____				Formation Tested Viola			
Tot. Liquid cc. _____				Elevation 1409' K.B. Ft.			
Gravity _____ ° API @ _____ ° F.				Net Productive Interval 7' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 2530' Ft.			
Recovery Water _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Recovery Mud _____ @ _____ ° F. _____ ppm				Drill Collar Length 146' I.D. 2.25"			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Pipe Length 2364' I.D. 3.826"			
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Packer Depth(s) 2523' Ft.			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Depth Tester Valve 2510' Ft.			
Mud Weight 9.8 vis 50 cp							
TYPE NONE		AMOUNT		Depth Back Pres. Valve NONE		Surface Choke 1 1/4"	
Cushion						Bottom Choke 3/4"	
Recovered 270'		Feet of water					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened for a 31 minute first flow with a weak blow - building slowly throughout. Closed tool for a 28 minute first closed in pressure. Tool re-opened for a 61 minute second flow with a good blow, which continued throughout. Took a 30 minute second closed in pressure.							
TEMPERATURE		Gauge No. 566		Gauge No. 239		Gauge No.	
Depth: 2511' Ft.		Depth: 2526' Ft.		Depth: _____ Ft.		TIME	
Est. 95 ° F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off NO		Blanked Off YES		Blanked Off		Tool A.M. Opened 0634 P.M.	
Actual ° F.		Pressures		Pressures		Tool A.M. Closed 0904 P.M.	
		Field Office		Field Office		Reported Computed	
Initial Hydrostatic		- 1311		1299.2 1321		Minutes Minutes	
First Period Flow Initial		- 8		10.0 17			
Flow Final		- 68		69.7 78		30 31	
Closed in		- 688		695.3 698		30 28	
Second Period Flow Initial		- 75		69.7 88			
Flow Final		- 116		129.5 125		60 61	
Closed in		- 684		695.5 695		30 30	
Third Period Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		- 1304		1289.2 1302			

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FORMATION TEST DATA

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Gauge No. 566			Depth			2511'			Clock No. 7101			12 hour			Ticket No. 500253 - B		
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period			Third Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.		Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	8	.000		68	.000		75	.000		116						
1	.0397	17*	.0274		640**	.0741		79***	.0201		626						
2	.0728	26	.0480		661	.1415		86	.0402		651						
3	.1059	37	.0686		671	.2089		94	.0603		665						
4	.1390	47	.0892		677	.2763		101	.0804		672						
5	.1721	57	.1098		681	.3437		109	.1005		676						
6	.205	68	.1304		683	.411		116	.1206		678						
7			.1510		685				.1407		680						
8			.1716		686				.1608		682						
9			.192		688				.1809		683						
10									.201		684						
11																	
12																	
13																	
14																	
15																	

Gauge No. 239			Depth			2526'			Clock No. 3228			hour 12			Minutes		
First Flow Period			First Closed In Pressure			Second Flow Period			Second Closed In Pressure			Third Flow Period			Third Closed In Pressure		
Time Defl. .000"	PSIG Temp. Corr.		Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.000	17	.000		78	.000		88	.000		125						
1	.0403	25*	.0271		650**	.0741		89***	.020		636						
2	.0738	35	.0475		673	.1415		97	.040		663						
3	.1073	45	.0679		683	.2089		104	.060		676						
4	.1408	55	.0883		688	.2763		111	.080		683						
5	.1743	66	.1087		691	.3437		119	.100		687						
6	.208	78	.1291		694	.411		125	.120		690						
7			.1495		696				.140		691						
8			.1699		697				.160		693						
9			.190		698				.180		694						
10									.200		695						
11																	
12																	
13																	
14																	
15																	
Reading Interval 5			3			10			3								

REMARKS: * INTERVAL = 6 MINUTES. ** INTERVAL = 4 MINUTES. *** INTERVAL = 11 MINUTES.



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Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	2510'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.75"	4'	2511'
Hydraulic Jar	5"	1.00"	5'	
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.00"	4'	2523'
Distributor				
Packer Assembly				
Flush Joint Anchor	5"	3.84"	2'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2.75"	4'	2526'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				

↓ PRESSURE

→ TIME

500253-B-566[#]

500253-B-239[#]

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